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| | | | | | | | | | | | | | | cac His | | 1044 |
| | | | | | | | | | | | | | | cag Gln | | 1092 |
| | | | | | | | | | | | | | | aat Asn | | 1140 |
| | | | | | | | | | | | | | | gac Asp | | 1188 |
| | | | | | | | | | | | | | | aag Lys 110 | | 1236 |
| | - | _ | | | - | | _ | | _ | | | | _ | atc Ile | | 1284 |
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| - | | | | _ | Asp | | Cys | _ | _ | | | _ | | tac Tyr | | 1380 |
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| | | | | | | | | | | | | | | gag Glu 190 | | 1476 |

| | | | | | cgc Arg | | | | | | | | | | | 1524 | | | | | | | | | |
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| | | | | | ttt Phe | | | | | | | | | | | 1572 | | | | | | | | | |
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| | _ | _ | _ | | ctt Leu | | | | | | _ | | _ | | _ | 1716 | | | | | | | | | |
| | | _ | | | atc Ile | | - | | | | | _ | | - | | 1764 | | | | | | | | | |
| | | | | | tat Tyr | | | | | | | | | | | 1812 | | | | | | | | | |
| | | | | | gac Asp | | | | | | | | | | | 1860 | | | | | | | | | |
| | | | | | act Thr 325 | | | | | | | | | | | 1908 | | | | | | | | | |
| | | | | | ttc Phe | | | | | | | | | | | 1956 | | | | | | | | | |
| | _ | - | | | aaa Lys | | | | _ | | | - | | | | 2004 | | | | | | | | | |
| | | | | | cct Pro | | | | | | | | | | cgc Arg | 2052 | | | | | | | | | |
| | gtg Val 385 | | | taat | tgcad | ctt a | aatta | atgca | at at | catgo | cgatt | gt(| gttai | ttt | | 2104 | | | | | | | | | |
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| atga | agtga | aaa a | aatta | aaaa | aa aq | gatgt | ccaa | a agt | taat | tct | ttat | gcaa | aac a | atgagtgaaa aattaaaaaa agatgtccaa agttaattct ttatgcaaac atcattcaat | | | | | | | | | | | |

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Asp Leu Lys Lys Lys Phe Gln Arg Ile Cys Glu Arg Thr Gln Ile Lys
50 55 60

Asn Arg His Met Tyr Leu Thr Glu Glu Ile Leu Lys Glu Asn Pro Asn 65 70 75 80

Met Cys Ala Tyr Lys Ala Pro Ser Leu Asp Ala Arg Glu Asp Met Met 85 90 95 Ile Arg Glu Val Pro Arg Val Gly Lys Glu Ala Ala Thr Lys Ala Ile 105 110 Lys Glu Trp Gly Gln Pro Met Ser Lys Ile Thr His Leu Ile Phe Cys 120 Thr Thr Ser Gly Val Ala Leu Pro Gly Val Asp Tyr Glu Leu Ile Val 135 140 Leu Leu Gly Leu Asp Pro Cys Val Lys Arg Tyr Met Met Tyr His Gln 150 155 Gly Cys Phe Ala Gly Gly Thr Val Leu Arg Leu Ala Lys Asp Leu Ala 170 Glu Asn Asn Lys Asp Ala Arg Val Leu Ile Val Cys Ser Glu Asn Thr 185 Ala Val Thr Phe Arg Gly Pro Ser Glu Thr Asp Met Asp Ser Leu Val 205 Gly Gln Ala Leu Phe Ala Asp Gly Ala Ala Ala Ile Ile Gly Ser Asp Pro Val Pro Glu Val Glu Lys Pro Ile Phe Glu Leu Val Ser Thr 235 240 Asp Gln Lys Leu Val Pro Gly Ser His Gly Ala Ile Gly Gly Leu Leu Arg Glu Val Gly Leu Thr Phe Tyr Leu Asn Lys Ser Val Pro Asp Ile Ile Ser Gln Asn Ile Asn Asp Ala Leu Asn Lys Ala Phe Asp Pro Leu Gly Ile Ser Asp Tyr Asn Ser Ile Phe Trp Ile Ala His Pro Gly Gly Arg Ala Ile Leu Asp Gln Val Glu Gln Lys Val Asn Leu Lys Pro Glu Lys Met Lys Ala Thr Arg Asp Val Leu Ser Asn Tyr Gly Asn Met Ser Ser Ala Cys Val Phe Phe Ile Met Asp Leu Met Arg Lys Arg Ser Leu Glu Glu Gly Leu Lys Thr Thr Gly Glu Gly Leu Asp Trp Gly Val Leu 365 Phe Gly Phe Gly Pro Gly Leu Thr Ile Glu Thr Val Val Leu Arg Ser 375 370

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SEQUENCE LISTING

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<110> Paiva, Nancy L.
Hipskind, John D.
The Samuel Roberts Noble Foundation, Inc.
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WO 00/44921 PCT/US00/02366

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| agt Ser | aca Thr | tat Tyr | gca Ala 35 | gat Asp | tat Tyr | tat Tyr | ttt Phe | aga Arg 40 | gta Val | acc Thr | aat Asn | agc Ser | gaa Glu 45 | cac His | atg Met | 1044 |
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WO 00/44921 PCT/US00/02366

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Asp Leu Lys Lys Phe Gln Arg Ile Cys Glu Arg Thr Gln Ile Lys 50 55 60

Asn Arg His Met Tyr Leu Thr Glu Glu Ile Leu Lys Glu Asn Pro Asn 65 70 75 80

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Leu Leu Gly Leu Asp Pro Cys Val Lys Arg Tyr Met Met Tyr His Gln 145 150 155 160

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